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TC 1700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Maydan and Samoilov

Serial No.: 09/866,172

Filed: May 24, 2001

For: METHOD FOR FABRICATING  
WAVEGUIDES

Confirmation No.: 4582

Group Art Unit: 1765

Examiner: Robert M. Kunemund

Attorney Docket No.: 005926/AKT/BG  
(10732-022-999)

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GROUP 1700

#8/A  
4/3/03

RESPONSE TO OFFICIAL ACTION MAILED OCTOBER 1, 2002

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The enclosed Amendment is in response to the Office Action dated October 1, 2002 for the above-identified patent application. A petition for extension of time for two months, extending the time for response to March 3, 2003 (March 1, 2003 falling on a Saturday) is enclosed.

**IN THE SPECIFICATION**

Amendments to the paragraphs in the specification, with insertions underlined and deletions bracketed, is attached as Appendix A.

Please replace paragraph 51 with the following:

[0051] First, a predetermined pattern 611 is formed on a substrate 210 using standard photolithographic techniques known in the art (Step 510). The substrate 210 is any substrate suitable for opto-electronic device fabrication, preferably Si. Next, the pattern is etched in the substrate 210 using etching techniques known in the art. (Step 515, Figure 5(a)) The substrate surface is then cleaned to remove contaminants, such as native oxides that are formed when the surface of the substrate is exposed to air, prior to placing the etched substrate 210 in the deposition chamber 12. (Step 520). In one such cleaning technique, the

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